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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,643	10/29/2003	Tomohiro Takamatsu	032057	5393
38834	7590 10/04/2005		EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			ERDEM, FAZLI	
SUITE 700	· · · · · · · · · · · · · · · · · · ·			PAPER NUMBER
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			DATE MAILED: 10/04/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		10/695,643	TAKAMATSU ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Fazli Erdem	2826				
Period f	The MAILING DATE of this communic for Reply	cation appears on the cover she	et with the correspondence address	S			
THE - External control	HORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC ensions of time may be available under the provisions of the period for reply specified above is less than thirty (30) O period for reply is specified above, the maximum state lure to reply within the set or extended period for reply we or reply received by the Office later than three months after and patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, runication. of days, a reply within the statutory minimum tutory period will apply and will expire SIX (6 will, by statute, cause the application to become.	may a reply be timely filed n of thirty (30) days will be considered timely. 6) MONTHS from the mailing date of this communione ABANDONED (35 U.S.C. § 133).	nication.			
Status							
1)🛛	Responsive to communication(s) filed	i on <u>06 <i>July</i> 2005</u> .					
2a)□	This action is FINAL.	b) 🖾 This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
•	·	e under Ex parte Quayre, 1905) C.D. 11, 453 O.G. 213.				
·	tion of Claims						
4)⊠	4) Claim(s) 1-32 is/are pending in the application.						
e\ F ZI	4a) Of the above claim(s) <u>17-32</u> is/are withdrawn from consideration.						
· —	Claim(s) 9-16 is/are allowed.						
·	Claim(s) 1,3,5 and 8 is/are rejected.						
7)⊠ 8)□	Claim(s) <u>2,4,6 and 7</u> is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Applicat	tion Papers						
	The specification is objected to by the	Examiner					
	☐ The specification is objected to by the Examiner. ☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
· - , -	Applicant may not request that any object	, , , , , ,	•				
	Replacement drawing sheet(s) including t	·		121(d).			
11)	The oath or declaration is objected to	· ·	** *	• •			
Priority	under 35 U.S.C. § 119						
а)	Acknowledgment is made of a claim for the priority of the priority of the priority of the priority of the certified copies of the priority of the certified copies of the certified copies of application from the Internation	documents have been received documents have been received of the priority documents have that Bureau (PCT Rule 17.2(a)).	I. I in Application No been received in this National Stage	e			
	See the attached detailed Office action	for a list of the certified copies	; not received.				
Attachmen	nt(s)						
Notic 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or P er No(s)/Mail Date	O-948) Pape	view Summary (PTO-413) er No(s)/Mail Date ee of Informal Patent Application (PTO-152) r:				

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 9-16 allowed.
- 2. Claims 2, 4, 6 and 7 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 3, 5 and 8 rejected under 35 U.S.C. 103(a) as being unpatentable over Natori et al. (2003/0021079) in view of Nam (2003/0057464) further in view of Lauder (4,110,254)

Regarding Claims 1, 3, 5 and 8, Natori et al. disclose a ceramic film and manufacturing method therefor, ferroelectric capacitors, semiconductor devices and other devices where in Fig. 2 and Claim 33, is disclosed a ferroelectric capacitor comprising a lower electrode, a ceramic film which is formed on the lower electrode and includes first crystals and second crystals and upper electrode formed on the ceramic film where the first crystals have a PZT type perovskite structure where the second crystals are ABO-type oxides in which Si is provided in a B site. Natori et al. fail to disclose the required adhesive/insulating layer structure and the required ferroelectric/Iridium structure. However, Nam discloses a ferroelectric memory device and method of

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fabricating the same where in claim 1, the required adhesive layer/insulating layer structure is disclosed. Furthermore, Yang et al. disclose a metal oxide catalytic compositions where in columns 3 and 4 the required ferroelectric/Iridium structure is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required adhesive layer/insulating layer and the ferroelectric/Iridium structure in Natori et al. as taught by Nam and Lauder, respectively, in order to have a semiconductor memory structure with increased performance.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 19, 2005

NATHAN J. FLYNN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800